

A1 to the immunodominant OVA-derived peptide SIINFEKL (SEQ ID NO: 22) and rat GM-CSF, as summarized below.

On page 10, please replace the paragraph starting on line 13 with the following:

A2 -- An immunostimulatory fusion protein construct of the invention may also include one or more sequence components selected from the group consisting of GM-CSF, a reporter sequence such as the immunodominant OVA-derived octapeptide SIINFEKL (OVA<sub>257-264</sub>, SEQ ID NO: 22), one or more peptide signal sequences and a synthetic purification tag, e.g., an added C-terminal amino acid sequence.

On page 11, please replace the paragraph starting on line 6 with the following:

A3 -- The immunostimulatory fusion proteins of the invention may be modified by joining them, either covalently or noncovalently, with a reporter molecule. A wide variety of reporter molecules are known in the art and the selection of the reporter determines the assay format. For example, as detailed in Example 1, the OVA-derived immunodominant octapeptide SIINFEKL (OVA<sub>257-264</sub>, SEQ ID NO: 22) was incorporated into exemplary immunostimulatory HER-2 fusion constructs and antigen presentation of the constructs evaluated. Briefly, the IL-2 secreting mouse T cell hybridoma B3Z, which responds to SIINFEKL (OVA<sub>257-264</sub>, SEQ ID NO: 22), when bound to mouse MHC class I, was stimulated with DC that were pre-pulsed with the HER-2 fusion constructs, and the magnitude of response evaluated by measuring [<sup>3</sup>H]thymidine incorporation in proliferating IL-2 dependent cells, as an indicator of antigen presentation.

On page 13, please replace the paragraph starting on line 1 with the following:

A4 -- The exemplary HER500\* construct (SEQ ID NO:8) was produced by expression of a coding sequence including in the 5' to 3' direction: the coding sequence for a 32 amino acid PAP signal sequence, the coding sequence for a 3 amino acid sequence of the mature PAP protein, an Ala Arg linker, the coding sequence for a 3 amino acid HER-2 signal sequence, the coding sequence for 289 amino acids of mature HER-2 membrane distal extracellular domain, an Ala linker, the coding sequence for the OVA-derived immunodominant octapeptide SIINFEKL (OVA<sub>257-264</sub>, SEQ ID NO: 22), the coding sequence for 217 amino acids of the HER-2 membrane distal intracellular domain, three consecutive alanines, and six consecutive histidines.

On page 13, please replace the paragraph starting on line 9 with the following:

A5 -- The exemplary HER500\*•rGM-CSF construct (SEQ ID NO:9) was produced by expression of a coding sequence including in the 5' to 3' direction: the coding sequence for a 32 amino acid PAP signal sequence, the coding sequence for a 3 amino acid sequence of the mature PAP protein, an Ala Arg linker, the coding sequence for a 3 amino acid HER-2 signal sequence, the coding sequence for 289 amino acids of mature HER-2 membrane distal extracellular domain, an Ala linker, the coding sequence for the OVA-derived immunodominant octapeptide

*A6*  
SIINFEKL (OVA<sub>257-264</sub>, SEQ ID NO: 22), the coding sequence for 217 amino acids of the HER-2 membrane distal intracellular domain, an Ala Ala linker, the coding sequence for mature rat GM-CSF (127 residues), and the coding sequence for glycine, alanine, four consecutive prolines, alanine, and six consecutive histidines.

*A6*  
On page 13, please replace the paragraph starting on line 19 with the following:

-- The exemplary HER300\*-rGM-CSF construct (SEQ ID NO:10) was produced by expression of a coding sequence including in the 5' to 3' direction: the coding sequence for a 32 amino acid PAP signal sequence, the coding sequence for a 3 amino acid sequence of the mature PAP protein, an Ala Arg linker, the coding sequence for a 3 amino acid HER-2 signal sequence, the coding sequence for 289 amino acids of mature HER-2 membrane distal extracellular domain, an Ala linker, the coding sequence for the OVA-derived immunodominant octapeptide SIINFEKL (OVA<sub>257-264</sub>, SEQ ID NO: 22), an Ala linker, the coding sequence for mature rat GM-CSF (127 residues), and the coding sequence for glycine, alanine, four consecutive prolines, alanine, and six consecutive histidines.

*A7*  
On page 23, please replace the paragraph starting on line 25 with the following:

-- The HER500\*-rGM-CSF construct (SEQ ID NO: 4) was produced by expression of a coding sequence which included, in the 5' to 3' direction: a 32 amino acid PAP signal peptide, a 3 amino acid sequence of the mature PAP protein, an Ala Arg linker, a 3 amino acid HER-2 signal sequence, 289 amino acids of the mature HER-2 membrane distal extracellular domain, an Ala linker, the OVA-derived immunodominant octapeptide SIINFEKL (OVA<sub>257-264</sub>, SEQ ID NO: 22), 217 amino acids of the HER-2 membrane distal intracellular domain, an Ala Ala linker, a 127 amino acid mature rat GM-CSF sequence, and Gly Ala Pro Pro Pro Pro Ala His His His His His (SEQ ID NO: 17).

*A8*  
On page 23, please replace the paragraph starting on line 33 with the following:

-- The HER300\*-rGM-CSF construct (SEQ ID NO: 5) was produced by expression of a coding sequence which included, in the 5' to 3' direction: a 32 amino acid PAP signal sequence, a 3 amino acid sequence of the mature PAP protein, an Ala Arg linker, a 3 amino acid HER-2 signal sequence, 289 amino acids of the mature HER-2 membrane distal extracellular domain, an Ala linker, the OVA-derived immunodominant octapeptide SIINFEKL (OVA<sub>257-264</sub>, SEQ ID NO: 22), an Ala linker, a 127 amino acid mature rat GM-CSF sequence, and Gly Ala Pro Pro Pro Pro Ala His His His His His (SEQ ID NO: 17).

*A9*  
On page 25, please replace the paragraph starting on line 6 with the following:

-- The HER500 construct (SEQ ID NO: 1) was produced by expression of a coding sequence which included, in the 5' to 3' direction: a 32 amino acid PAP signal sequence, a 3

A9  
amino acid sequence of the mature PAP protein, an Ala Arg linker, 3 amino acids of HER-2 signal sequence, 289 amino acids of mature HER-2 membrane distal extracellular domain, 217 amino acids of the HER-2 membrane distal intracellular domain and a C-terminal tag consisting of Ala Ala Ala His His His His His His (SEQ ID NO: 15) --

On page 25, please replace the paragraph starting on line 12 with the following:

A10  
-- The HER500•hGM-CSF construct (SEQ ID NO: 2) was produced by expression of a coding sequence which included, in the 5' to 3' direction: a 32 amino acid PAP signal sequence, a 3 amino acid sequence of the mature PAP protein, an Ala Arg linker, 3 amino acids of HER-2 signal sequence, 289 amino acids of the mature HER-2 membrane distal extracellular domain, 217 amino acids of the HER-2 membrane intracellular domain, an Ala Ala linker, a 127 amino acid mature human GM-CSF sequence and a C-terminal tag consisting of Gly Ala Pro Pro Pro Pro Ala Ala Ala His His His His His (SEQ ID NO: 16) --

On page 25, please replace the paragraph starting on line 19 with the following:

A11  
-- The HER500\* construct (SEQ ID NO: 3) was produced by expression of a coding sequence which included, in the 5' to 3' direction: a 32 amino acid PAP signal sequence, a 3 amino acid sequence of the mature PAP protein, an Ala Arg linker, 3 amino acids of HER-2 signal sequence, 289 amino acids of the mature HER-2 membrane distal extracellular domain, an Ala linker, the OVA-derived immunodominant octapeptide SIINFEKL (OVA<sub>257-264</sub>, SEQ ID NO: 22), 217 amino acids of the HER2 membrane distal intracellular domain and a C-terminal tag consisting of Ala Ala Ala His His His His (SEQ ID NO: 15). --

On page 25, please replace the paragraph starting on line 26 with the following:

A12  
-- The HER500\*rGM-CSF construct (SEQ ID NO: 4) was produced by expression of a coding sequence which included, in the 5' to 3' direction: a 32 amino acid PAP signal sequence, a 3 amino acid sequence of the mature PAP protein, an Ala Arg linker, 3 amino acids of HER-2 signal sequence, 289 amino acids of the mature HER-2 membrane distal extracellular domain, an Ala linker, the OVA-derived immunodominant octapeptide SIINFEKL (OVA<sub>257-264</sub>, SEQ ID NO: 22), 217 amino acids of the HER2 membrane distal intracellular domain, an Ala Ala linker, a 127 amino acid mature rat GM-CSF sequence and a C-terminal tag consisting of Gly Ala Pro Pro Pro Ala His His His His (SEQ ID NO: 17). --

On page 25, please replace the paragraph starting on line 34 with the following:

A13  
-- The HER300\*rGM-CSF construct (SEQ ID NO: 5) was produced by expression of a coding sequence which included, in the 5' to 3' direction: a 32 amino acid PAP signal sequence, a 3 amino acid sequence of the mature PAP protein, an Ala Arg linker, 3 amino acids of HER-2 signal sequence, 289 amino acids of the mature HER-2 membrane distal extracellular domain, an Ala linker, the OVA-derived immunodominant octapeptide SIINFEKL (OVA<sub>257-264</sub>, SEQ ID

*A13* NO: 22), an Ala linker, a 127 amino acid mature rat GM-CSF sequence and a C-terminal tag consisting of Gly Ala Pro Pro Pro Pro Ala His His His His His His His His His (SEQ ID NO: 17).

On page 31, please replace the third row of the left column with the following:

*A14* [REporter peptide in constructs HER500\* and HER500\*ratGM-CSF: (OVA-derived immunodominant octapeptide SIINFEKL (OVA<sub>257-264</sub>))] [RE]